Serial No. 09/828,093 Docket No. 4296-135 US

## **Amendments to the Claims:**

## Listing of Claims:

1. (Currently amended) A method for the purification of an easily polymerizable substance, comprising the step of using a <u>distillation</u> column provided in at least part thereof with (a) a tray directly fixed with a bolt and a nut to a support ring fitted to the inner wall of the column or (b) a tray fixed to a support ring fitted to the inner wall with a vertical clamp;

wherein at least one liquid passing opening is provided to a joint part between said support ring and the inner wall of said column and said tray is a dualflow tray.

- 2. (Canceled).
- 3. (Canceled).
- 4. (Previously presented) A method according to claim 1 further comprising a liquid passing opening provided to a fixing part between said tray and said support ring and/or, where one tray is formed of a plurality of component plates, a fixing part between each of the component plates and the plate of tray.
- 5. (Original) A method according to claim 1, wherein said column is a distillation column with a plurality of trays.
- 6. (Original) A method according to claim 5, wherein said column is a distillation column with 3 to 100 trays.
- 7. (Original) A method according to claim 1, wherein said easily polymerizable substance is at least one member selected from the group consisting of an unsaturated carboxylic acid, an ester thereof, a vinyl-group containing compound, and a diolefin compound.
- 8. (Original) A method according to claim 7, wherein said easily polymerizable substance is at least one member selected from the group consisting of an unsaturated carboxylic acid and an ester thereof.
- 9. (Previously presented) A method for the purification of an easily polymerizable substance, comprising the step of:

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performing purification by the use of a distillation column provided in the lower part thereof with a splash collision plate being a dualflow tray having an opening area ratio of said tray in the range of 30% to 70% or a splash collision plate being a disc-and-doughnut type collision plate and/or a segment baffle type collision plate having a total opening area of said collision plate and a segmental opening in the range of 10% to 90% relative to a cross section of the column.

- 10. (Original) A method according to claim 9, wherein said distillation column has a dualflow tray.
  - 11. (Canceled).
- 12. (Previously presented) A method according to claim 9, wherein said column is a distillation column with 3 to 100 trays.
- 13. (Original) A method according to claim 9, wherein said easily polymerizable substance is at least one member selected from the group consisting of an unsaturated carboxylic acid, an ester thereof, a vinyl-group containing compound, and a diolefin compound.
- 14. (Original) A method according to claim 13, wherein said easily polymerizable substance is at least one member selected from the group consisting of an unsaturated carboxylic acid and an ester thereof.
- 15. (Previously presented) A purification apparatus comprising at least one of the following items (i) (iii);
- (i) a tray fixed to a support ring, fitted to the inner wall of a distillation column, by the use of a vertical clamp,
- (ii) at least one liquid passing opening provided in a joint part between said support ring and the wall of said column, and
- (iii) a liquid passing opening provided in a fixing part between said tray and said support ring.
- 16. (Original) An apparatus according to claim 15 further comprising 3 to 100 trays therein.
  - 17. (Original) An apparatus according to claim 15, the column is used for

purifying an easily polymerizable substance.

- 18. (Canceled).
- 19. (Original) An apparatus according to claim 15 further comprising a liquid passing opening provided to the fixing part between said tray and said support ring and/or, where one tray is formed of a plurality of component plates, the fixing part between each of the component plates and the plate of tray.